



# **JOINT INTEGRATION TEST FACILITY (JITF)**

## **Evaluating Performance**

**AFRL/IFEB  
DSN: 587-7829/1781  
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- ❖ Purpose

- ❖ Metrics

- Percentage of Integration Requirements Met by Intelligence Mission Applications (IMA) - Test Scores
- Percentage of Integration Requirements Met by Service/Agency - Test Scores
- Testing Value
  - ❖ Test Findings by Impact Code
    - By IMA and by Service/Agency
  - ❖ Command Critical IMA Test History
  - ❖ Number of Findings for FY99 and FY00

- ❖ Conclusions



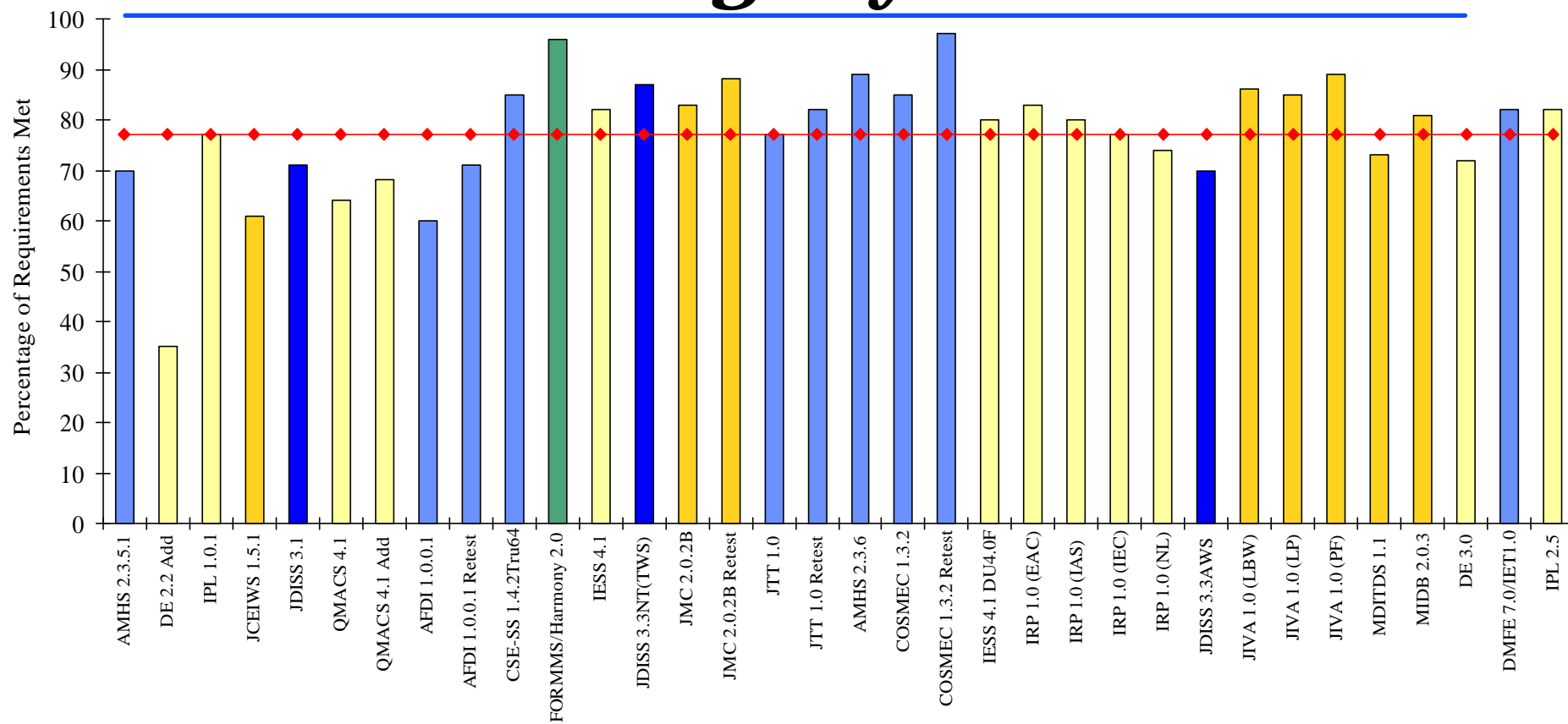
## ***Purpose***

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- ❖ Identify snap shot of current state of integration for tested IMAs
- ❖ Identify if significant differences occur in level of integration obtained by participating Services/Agency
- ❖ Document value of testing
  - Number of critical findings identified prior to fielding
  - Improvement in level of integration since inception of testing program
- ❖ Discuss any conclusions that can be drawn from integration testing activity



# IMAs Tested in FY00 by Service/Agency and Test Scores



Data is for tests with report dates from 1 Oct 1999 through 31 Sep 2000

AF Program

NIMA Program

DIA Program

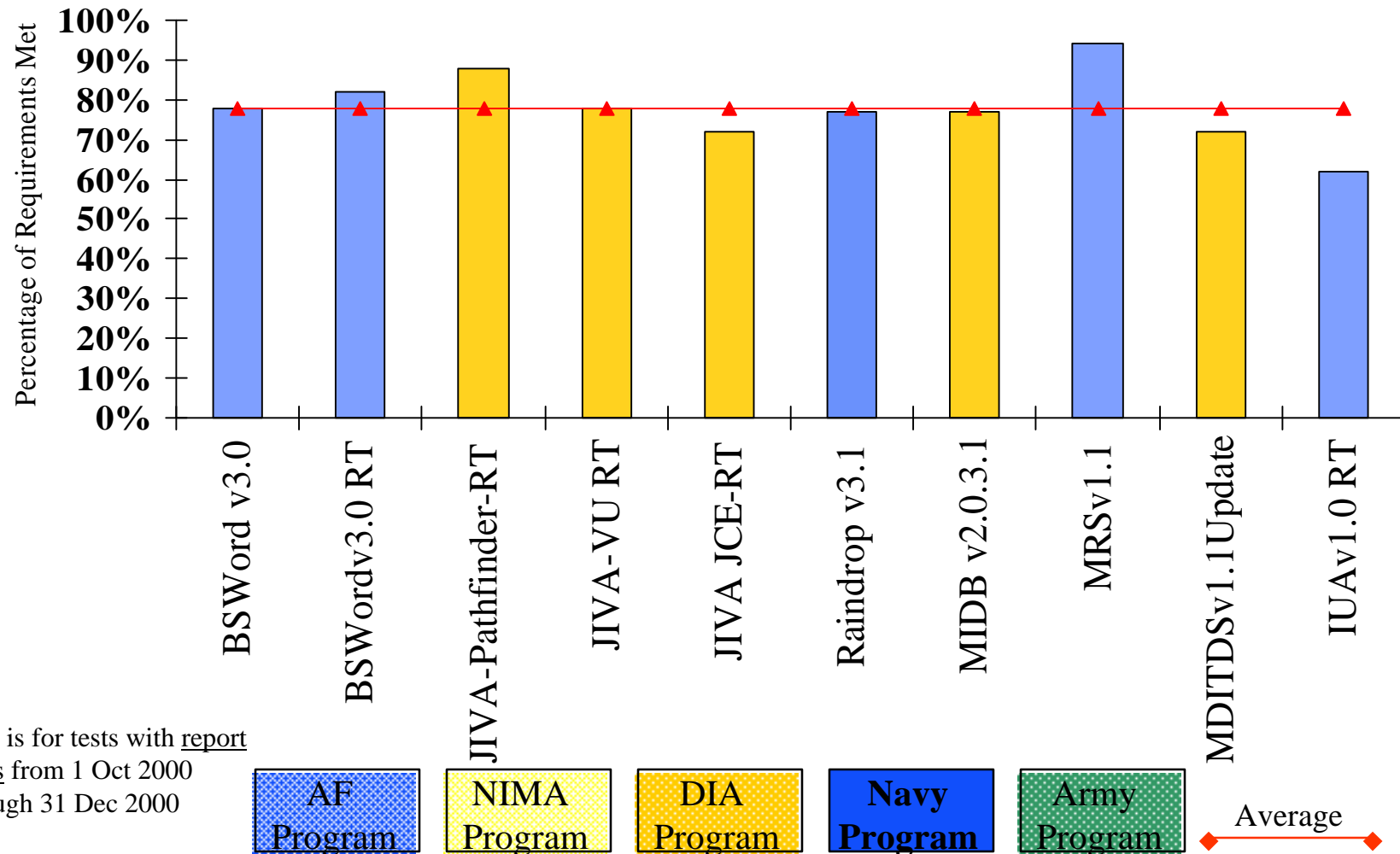
Navy Program

Army Program

Average



# ***IMAs Tested in First Quarter 01 by Service/Agency and Test Scores***

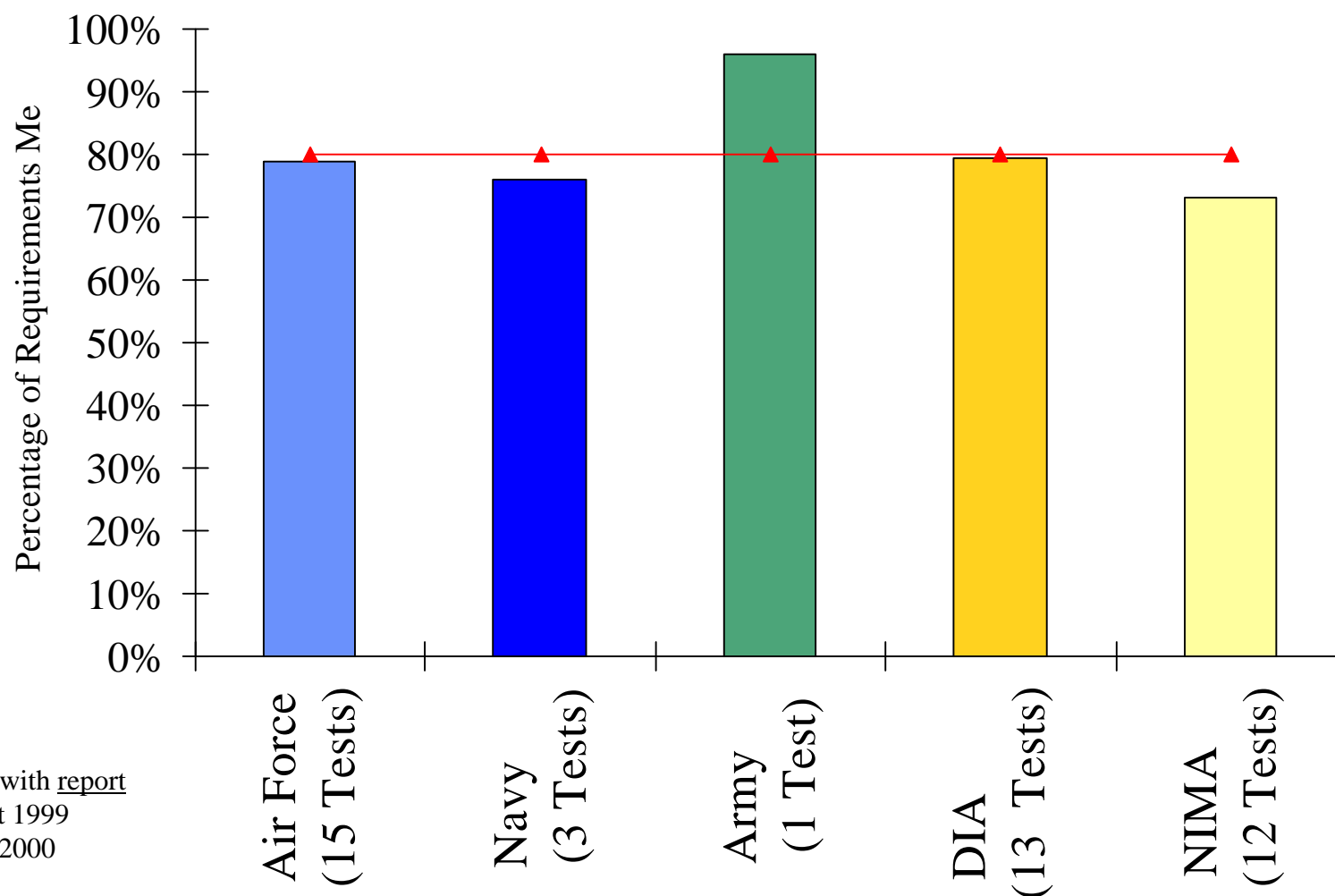


Data is for tests with report  
dates from 1 Oct 2000  
through 31 Dec 2000



# ***Average Test Scores by Service/Agency***

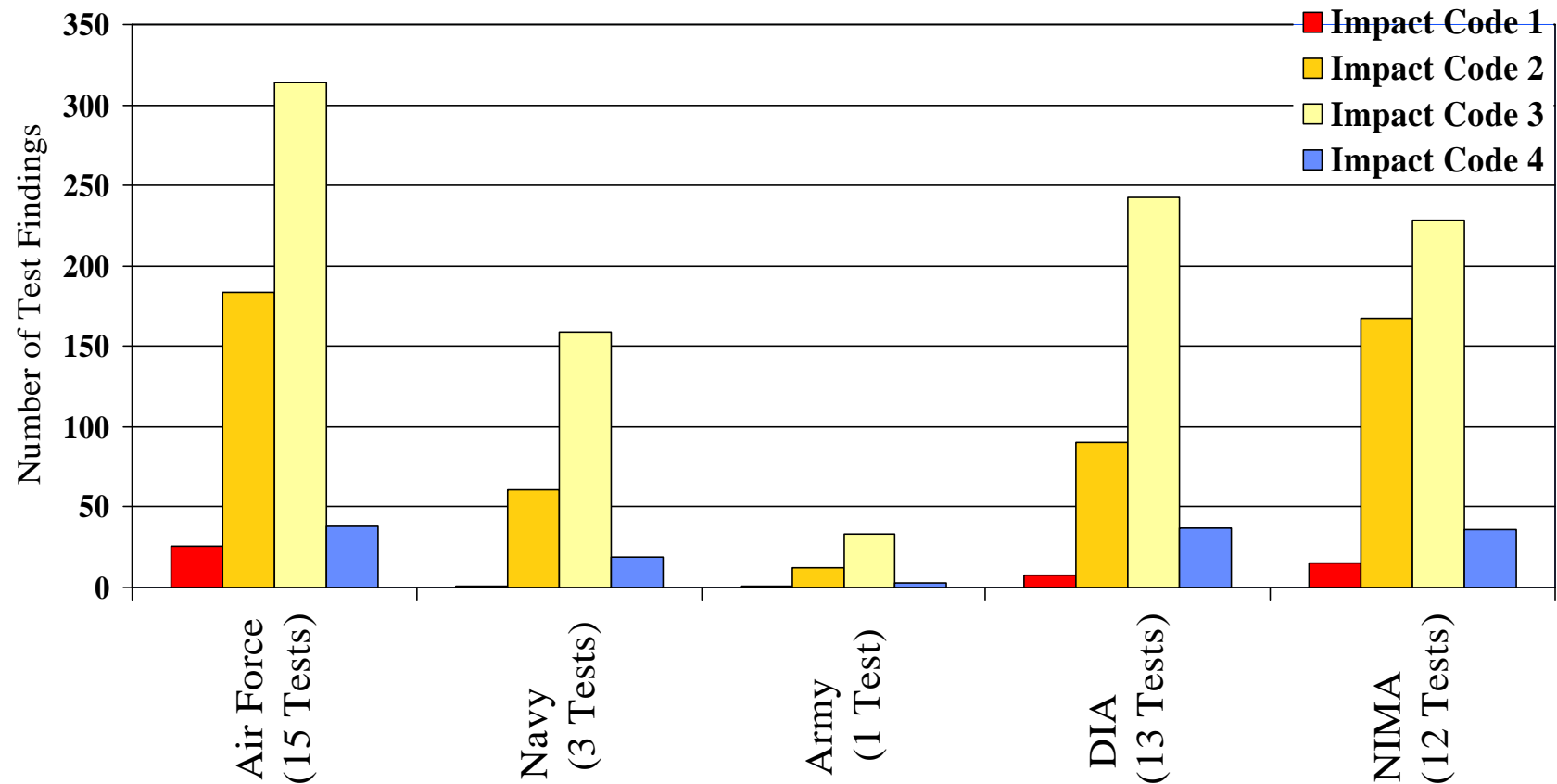
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Data is for tests with report  
dates from 1 Oct 1999  
through 31 Dec 2000



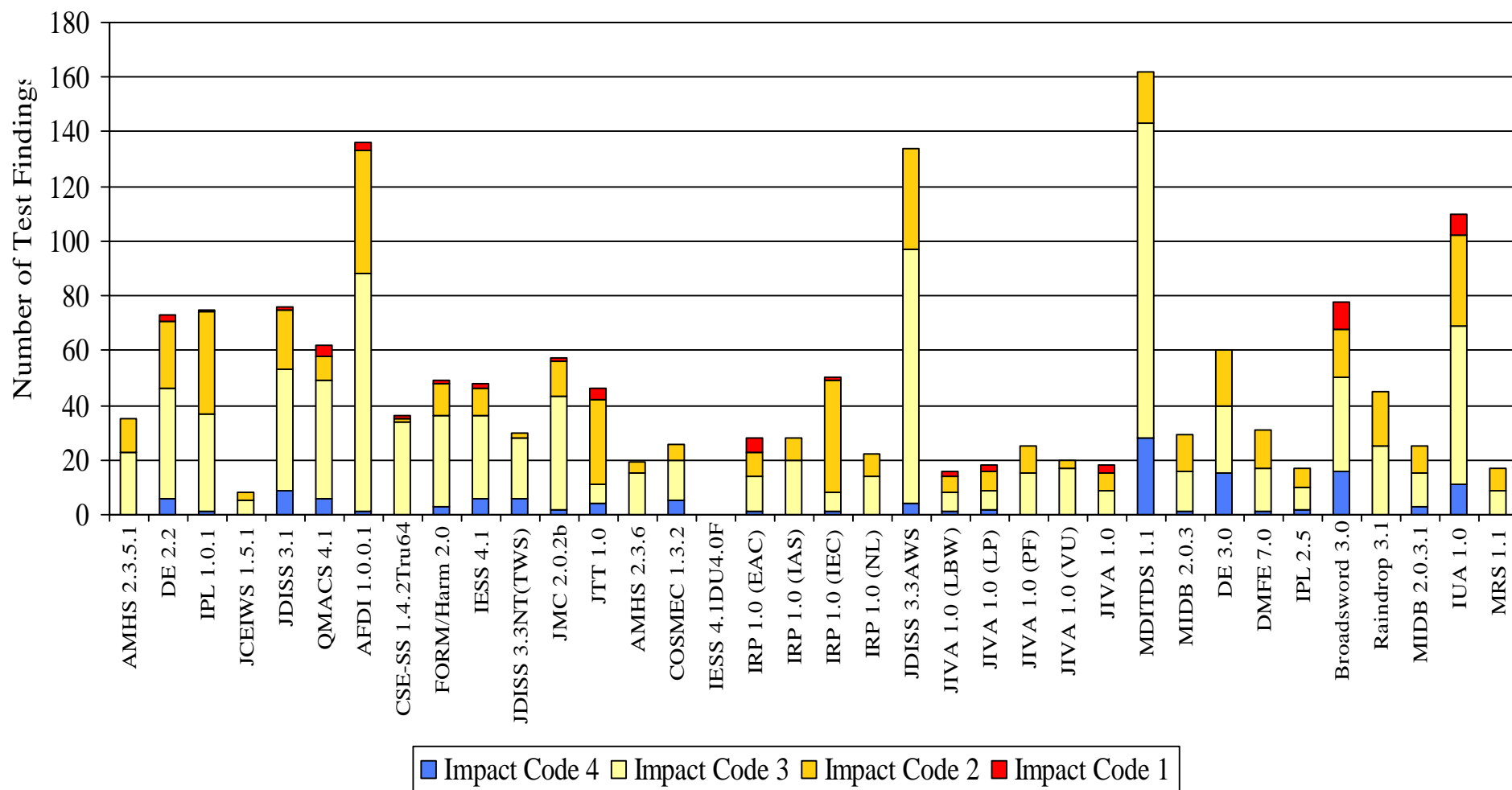
# ***Number of Findings by Service/Agency***



Data is for tests with  
report dates from  
1 Oct 1999  
through 31 Dec 2000



# Number of Findings by IMA

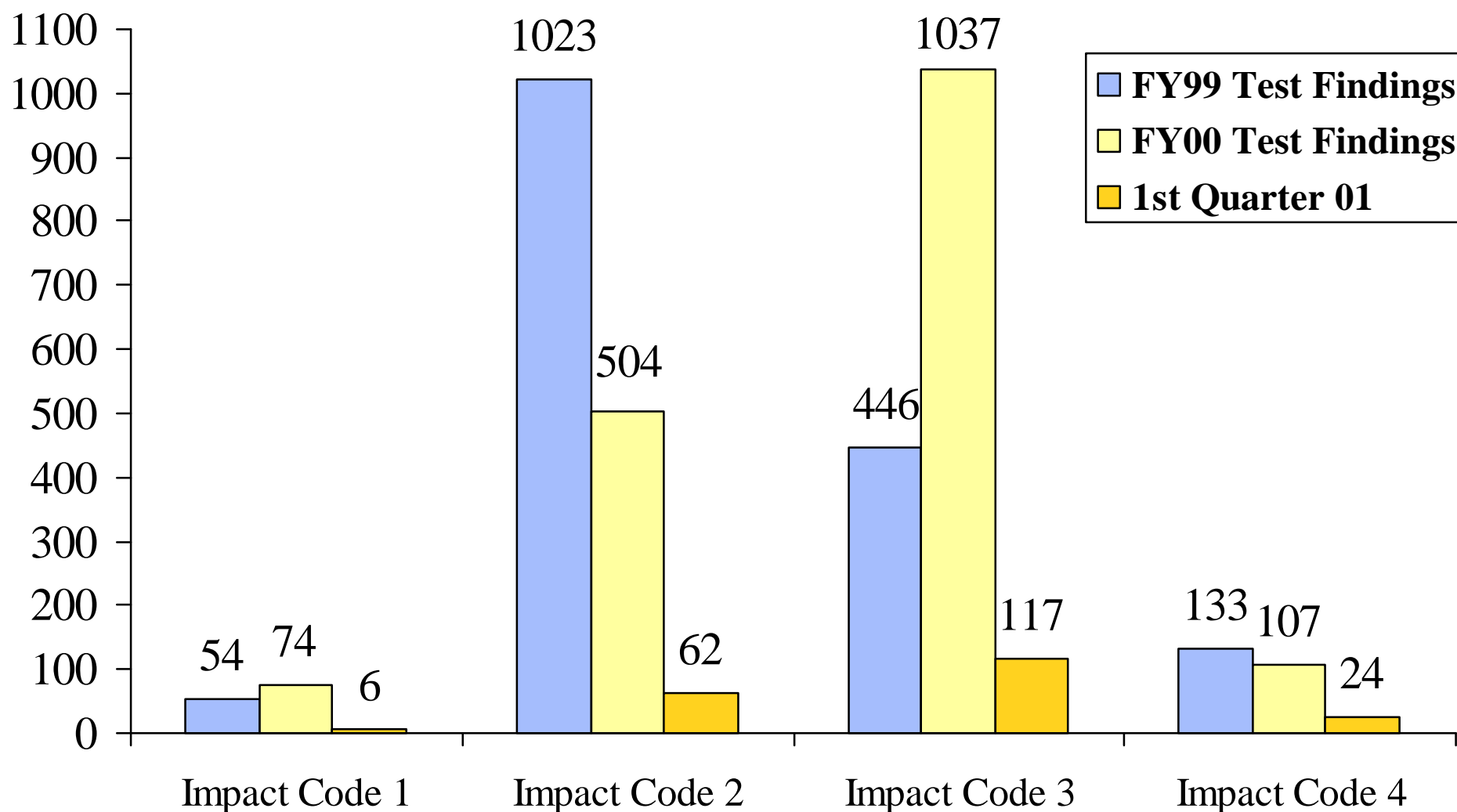


Data is for tests with report dates from  
1 Oct 1999 through 31 Dec 2000



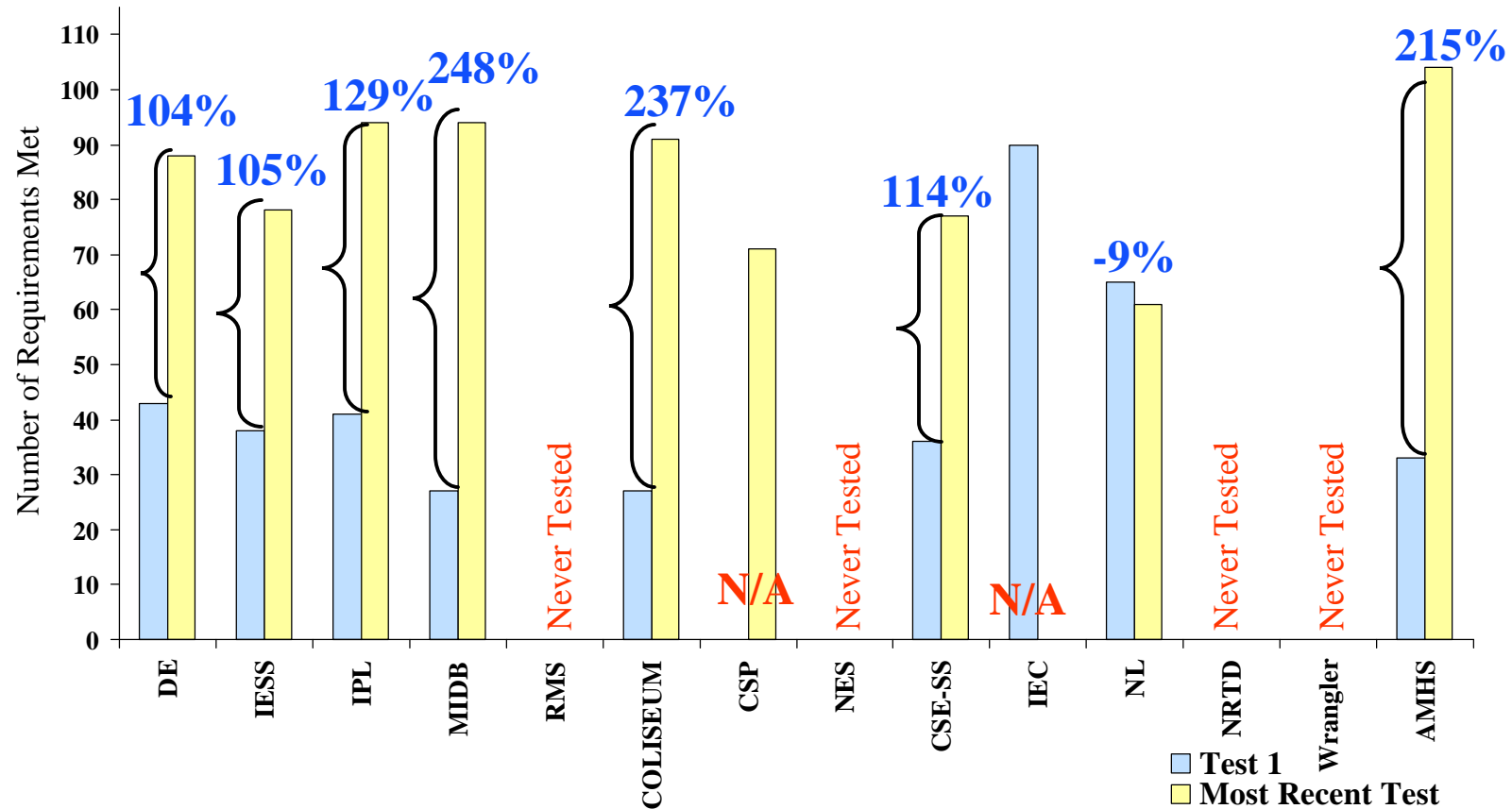


# ***Findings per Fiscal Year***





# Percentage Improvement - For Top 14 Command Critical IMAs



Note 1: Tests were conducted from Oct 1995 to March 2001 for IMAs designated as “Command Critical” by 6 or more U&S Commands

Note 2: Only 1 test has been conducted for IEC and 2 tests were conducted for NL

Note 3: Complete data is not available for CSP

Note 4: Majority of these IMAs have been tested 5 or more times

■ Test 1  
■ Most Recent Test  
XX % of increase in the number of met Integration Requirements from the 1st JITF test of the IMA to the most recent JITF test of the IMA



# ***Conclusions***

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- ❖ Integration levels are comparable between services and agencies
- ❖ The JITF identified critical integration failures in 47% of the IMA versions tested
  - Critical failures (Impact Code 1 TFs) result in a re-test or a recommendation not to proceed
- ❖ Testing identifies significant numbers of findings prior to deployment
  - Impact Code 1 findings are corrected prior to fielding
  - Workarounds and information are provided to users to reduce level of effort at operational sites for Impact Code 2 and 3



## ***Conclusions***

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- ❖ No significant changes in the number of test findings from FY99 to FY00
  - IMAs that have been tested multiple times show significant improvement but new IMAs are added to DODIIS each year
- ❖ JITF testing has significantly improved integration levels since initial testing
- ❖ Data to identify cost savings and overall impact is not being collected
  - Anecdotal information from the JAC, STRATCOM, and SPACECOM indicate significant reduction in level of effort required by Site System Administrators to employ tested software vice untested